

Message Text

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ACTION SS-25

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C O N F I D E N T I A L VIENNA 03285

EXDIS

USIAEA

E.O.11652: EXGDS-3
TAGS: IAEA, PARM, TW
SUBJECT: SAFEGUARDS PROCEDURES AT TRR; ROC NUCLEAR
DEVELOPMENTS

REF: (A) STATE 80897, NOTAL; (B) MAHY/MENZEL TELCON 4
APRIL 1978

1. A JOINT APPROACH TO MEASUREMENT OF 181 IRRADIATED
RODS WHICH WOULD BE SUITABLE TO AGENCY WOULD BE AS FOLL-
OWS:

A. US, ROC, IAEA REPS MEET AT TRR TO REVIEW POSSIBLE
HANDLING PROCEDURES AND PLACES WHERE MEASUREMENT RIG
COULD BE INSTALLED. AGREE TO BEST PROCEDURES AND LOCA-
TION. INITIATE DESIGN, MANUFACTURE AND INSTALLATION
PROCESS FOR RIG. SET TARGET DATES FOR INSTALLATION,
TESTING AND BEGINNING MEASUREMENTS.

B. DESIGN, MANUFACTURE AND INSTALL MEASUREMENT RIG.

C. DESIGN THE MEASUREMENT PROGRAM INCLUDING RANDOM
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SELECTION BY IAEA OF RODS TO BE MEASURED WITH FULL IAEA
PARTICIPATION, AND ESTABLISH DETAILED TIME SCHEDULE FOR
MEASUREMENTS.

D. (I) SET UP AND TEST INSTRUMENTATION IN MEASUREMENT
RIG. ABOUT ONE WEEK - IAEA, US AND ROC.

(II) PROCEED IMMEDIATELY WITH MEASUREMENT PROGRAM TO MEASURE 100 OF RODS WITH FULL IAEA PARTICIPATION ONLY FOR THE PRE-SELECTED FRACTION.

2. PER REF B, US COULD PROVIDE UP TO 3 MEASUREMENT EXPERTS AND POSSIBLY TWO INSTRUMENTS WITH DETECTORS. EXTRA INSTRUMENT/DETECTORS WOULD BE USEFUL FOR BACKUP IN CASE OF FAILURE OF IAEA INSTRUMENT/DETECTOR.

3. FOREGOING PROGRAM WOULD FOCUS ON TASK OF MEASURING THE 181 IRRADIATED RODS IN DRY STORAGE FOR REFUELING. ADDITIONALLY, 60 CUT RODS IN POOL SHOULD BE MEASURED BEFORE GOING INTO LONG-TERM DRY STORAGE. THIS MEASURING JOB WOULD BE EASIER THAN THAT FOR THE 181 RODS AND COULD POSSIBLY BE DONE AT SAME TIME OR IMMEDIATELY FOLLOWING THE PROGRAM OUTLINED IN PARA 1 ABOVE.

4. REGARDING TIMING; A. RAMALHO CURRENTLY PLANS GO TO JAPAN END OF APRIL FOR FOUR WEEKS OF INSPECTIONS. HE COULD STOP FOR 1 OR 2 DAYS IN TAIWAN (APRIL 27 AND 28) TO DO STEP A PARA 1 ABOVE. HE WOULD RETURN TO VIENNA FIRST OF JUNE AND WOULD NEED SEVERAL WEEKS TO COMPLETE THE JAPAN INSPECTION EVALUATION AND REPORT AND PREPARE FOR TRR MEASUREMENTS. THEREFORE HE COULD NOT START STEP D BEFORE SOMETIME IN JULY, ASSUMING STEP B WAS COMPLETED BY THEN.

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5. OVERALL LENGTH OF TIME TO DO MEASUREMENTS IS NOT DETERMINABLE WITH INFORMATION AVAILABLE IN VIENNA, DUE TO FACT THAT THE ROD HANDLING PROCEDURES (E.G. ASSUMING THE MEASUREMENTS WILL BE COMBINED WITH THE REFUELLING OPERATION) ARE NOT KNOWN. THERE IS ONLY ONE REFUELLING FLASK, SO ONLY ONE ROD CAN BE OUT OF STORAGE HOLES AND OUT OF REACTOR CORE AT ONE TIME. THE ACTUAL DURATION OF A FULL LENGTH SCAN AND A POINT MEASUREMENT OF ONE ROD BY THE INSTRUMENTATION IS ABOUT 17 TO 20 MINUTES. THE FLASK AND FUEL HANDLING PROCEDURE (REMOVAL, MOVING, POSITIONING, INSERTING, ETC.) MAY TAKE AN ADDITIONAL 20 TO 80 MINUTES PER ROD.

6. THORNE PRESUMES MENZEL WILL TRANSMIT THIS PROPOSAL OUTLINED PARA 1 ABOVE TO ROC OFFICIALS.

7. PLEASE ADVISE ASAP IF THIS PROPOSAL IS ACCEPTABLE TO USG AND ROC SO RAMALHO CAN FACTOR PLANNING FOR STEP A INTO HIS SCHEDULE PRIOR TO HIS APRIL 24 DEPARTURE FROM VIENNA. LABOWITZ

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